Docket No.: M4065.0710/P710

## ABSTRACT

A method and apparatus for operating a content addressable memory (CAM) and a ternary CAM (TCAM) are described including an encoding circuit for encoding an incoming CAM or TCAM word to produce an encoded CAM or TCAM word such that a one-bit mismatch between a comparand and the incoming CAM or TCAM word results in at least a M-bit mismatch between said encoded CAM or TCAM word and a similarly encoded comparand, a circuit for precharging a match line to a predetermined state before a comparison between the encoded CAM or TCAM word and said similarly encoded comparand and a memory storage location for storing the encoded CAM or TCAM word.